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Commo

25X1

WORK RECORD

CONTRACT NO. (RD-128, Task Order 3)

CONTRACTOR

Design, development
and fabrication of a
parabolic dish antenna

25X1

WORK ORDER NO. 1

CHANGE ORDER NO.

JOB TITLE

ISSUE DATE 21 January 1958

CRASH

PRIORITY NO. 1

PREMIUM PAY

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TOTAL COST \$6142.12

REQUESTED COMPLETION DATE

OR

CONTRACTORS ESTIMATED COMPLETION DATE 90 days after receipt of order

WORK DESCRIPTION: Design, develop, and fabricate a reflector pedestal assembly
and a Instructions to the contractor appear on the
attachment to this Work Order No.1.

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The association of the contracting organization with this contract and/or
equipment is classified SECRET.

EQUIPMENT SECURITY CLASSIFICATION UNCLASSIFIED

CONTRACTOR'S ACCEPTANCE:

CONTRACTING OFFICER'S APPROVAL

(Signature)

(Signature)

DATE COMPLETED

WORK ASSIGNED BY

BY: PHONE

VISIT

X

WRITTEN TASK

X

REQUESTING DIVISION APPROVAL

ENGINEERING DIVISION APPROVAL

25X1

CONTACT FOR REQUESTING DIVISION

COGNIZANT COMPANY CONTACTS: TECHNICAL

PHONE

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BLDG. & ROOM

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ADMINISTRATIVE

PHONE

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ext.

BLDG. & ROOM

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~~CONFIDENTIAL~~ATTACHMENT to

Work Record, Work Order No. 1

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A. General Work Requirements

1. The antenna shall be adaptable to a frequency range of 1 KMC to 10 KMC and will be provided with a provision for vertical and horizontal polarization. Broad banding need not be furnished. A connection to a 50 ohm unbalanced line will be provided. The input connection should be through a standard type N, 50 ohm receptacle, and the feed should be capable of being mounted in the reflector. The polarization must be continuously rotatable from true vertical to true horizontal since the received signal is a reflected one and polarization on arrival is unknown. The utilization of a 36 inch spun aluminum parabolic reflector, which will be reinforced in the back and cut into four segments to meet the packaging requirements, is deemed acceptable.
2. The mounting structure shall consist of a hand rotatable, self-supporting pedestal mount, adjustable to 6 feet from the bottom edge of the reflector to the floor. This mounting structure will be a sectionalized tripod and mast assembly which will permit coarse and fine height adjustments from 2 to 6 feet above the floor level. It should be hand rotatable in azimuth through 360 degrees, with provision for locking in any position. The assembly will be self-supporting, without lagging or guying, but provision for lagging should be made.

B. Packaging Requirements:

1. The assemblies should be broken into units which can be packaged into cartons not exceeding 20 inches x 20 inches x 12 inches outside dimensions packaged, or weigh more than 60 lbs. packaged. These cube and weight limitations refer to any one package. Packaging provisions for air shipment with some lightweight material such as reinforced corrugated cardboard, plywood or fiber glass is required.

C. Deliverable Items Required:

1. One reflector pedestal assembly and one feed assembly packaged for air shipment.
2. One reproducible and two copies of all manufacturing drawings and parts lists.
3. Three 8 x 10 inch photographs including one showing an assembled view of the unit.

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